

UNCLASSIFIED



Information Technology Requirements Oversight and Management

(The JCIDS "IT Box")



- **Background**
 - Why implement the IT Box?
 - JROCM 008-08

- **The IT Box**
 - Key JCIDS Changes
 - JROC presentation template

- **Status - programs using the IT Box**
 - Example IT Box slide and JROCM
 - Lessons Learned

- **Conclusion / Q&A**

IT Box Background



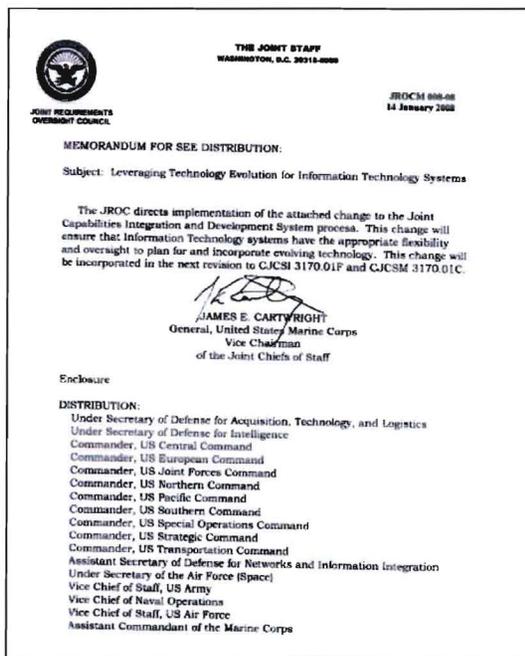
- Why implement an IT Box?
 - Moore's Law:
“The number of transistors on an Integrated Circuit doubles approximately every 18-24 months.”
 - The U.S. has been able to leverage rapidly-evolving IT for decisive military advantage.
 - However, the JCIDS process does not provide the required flexibility to take full advantage of evolving commercial information technology.

- JROCM 008-08
 - The JROC wants to ensure that IT programs have the flexibility to “plan for and incorporate evolving technology” throughout the program's lifecycle.

 JOINT REQUIREMENTS OVERSIGHT COUNCIL	THE JOINT STAFF WASHINGTON, D.C. 20319-6000	JROCM 008-08 14 January 2008
MEMORANDUM FOR SEE DISTRIBUTION:		
Subject: Leveraging Technology Evolution for Information Technology Systems		
<p>The JROC directs implementation of the attached change to the Joint Capabilities Integration and Development System process. This change will ensure that Information Technology systems have the appropriate flexibility and oversight to plan for and incorporate evolving technology. This change will be incorporated in the next revision to CJCSI 3170.01F and CJCSM 3170.01C.</p>		
 JAMES E. CARTWRIGHT General, United States Marine Corps Vice Chairman of the Joint Chiefs of Staff		
Enclosure		
DISTRIBUTION:		
Under Secretary of Defense for Acquisition, Technology, and Logistics Under Secretary of Defense for Intelligence Commander, US Central Command Commander, US European Command Commander, US Joint Forces Command Commander, US Northern Command Commander, US Pacific Command Commander, US Southern Command Commander, US Special Operations Command Commander, US Strategic Command Commander, US Transportation Command Assistant Secretary of Defense for Networks and Information Integration Under Secretary of the Air Force (Space) Vice Chief of Staff, US Army Vice Chief of Naval Operations Vice Chief of Staff, US Air Force Assistant Commandant of the Marine Corps		



JROCM 008-08



- Define **threshold capability levels** based upon what is achievable with today's technology. (CDD & CPD para 6 and JROC Briefing)
- Describe process for approving capability enhancements. Who will have the authority to approve moving beyond the thresholds with evolving technology? (JROC Briefing)
- Describe the plan for delivering capability: (JROC Briefing)
 - How often will releases of new or enhanced capability be delivered?
 - What is the plan for assessing the application of new technologies?
 - What is the plan for technology refresh?
- Identify the level of effort **funding** which will be used for the software development effort. (CDD & CPD para 15 and JROC briefing)

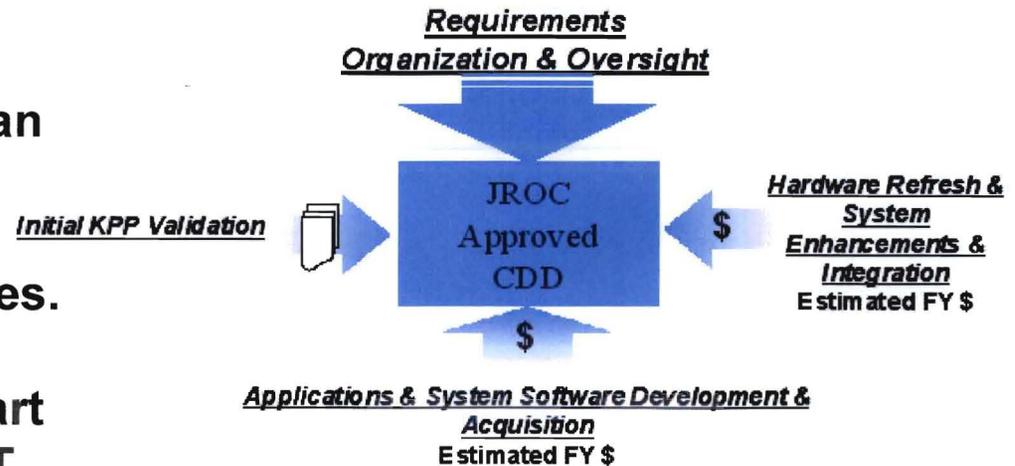
IT Box - JROC Presentation Template

(JCIDS Manual Enclosure C)



Key Points:

- Describe the **overall bounds** of an IT program in order to reduce return trips to the JROC for approval of improved capabilities.
- Provide to FCB/JCB/JROC as part of the approval process for an IT program's CDD.
- Only applies to programs who do not need to develop hardware systems. (leveraging COTS hardware)
- Once CDD is approved, no need to return to JROC with a CPD, unless MDA requires it.



Use 'IT System Brief Template' from JROC Admin Guide Wiki:
http://www.intelink.sgov.gov/wiki/Joint_Requirements_Oversight_Council_Admin_Guide

Components of the IT Box (JCIDS Manual Enclosure C)



Requirements Organization and Oversight

Determines schedule/ content of capability releases based upon collaboration between users and the PM.

Guidance:

- (1) Name the Flag-level body that holds authority over and provides governance for requirements.
- (2) Identify the Chair
- (3) Identify the organizations represented, including all stakeholders. Include the acquisition community to provide advice on technical feasibility, cost and schedule.



Components of the IT Box

(JCIDS Manual Enclosure C)

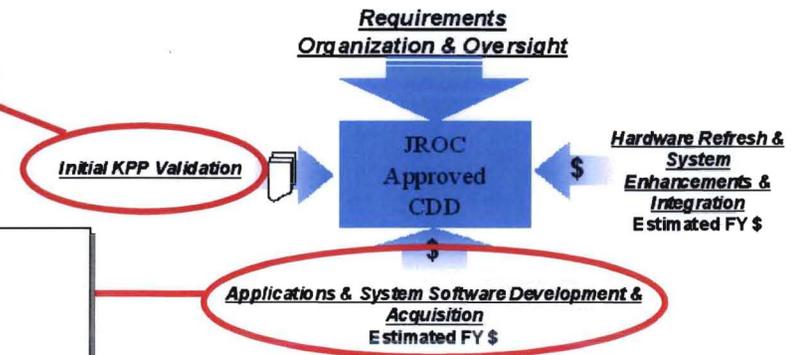


Key Performance Parameters (KPPs)

The initial minimum levels of performance required for the entire IT program.

Application and System Software Development and Acquisition:

- (1) Identify the level of effort funding to be used for the software development effort per fiscal year.
- (2) Identify total program costs for application and system software development and/or integration. Do not describe as fiscal year since these items should be a flat rate over the lifetime of the program.
- (3) Identify how often new releases will be delivered for enhanced or new capabilities.

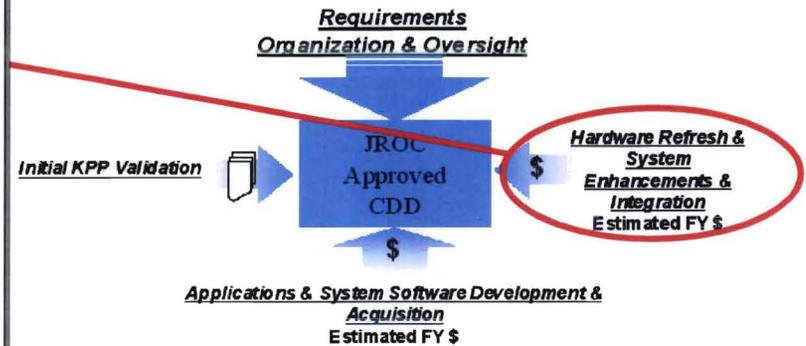


Components of the IT Box (JCIDS Manual Enclosure C)



Hardware Refresh and System Enhancements & Integration:

- (1) Identify the total planned program cost to deliver the capability.
- (2) Identify the plan and potential cost for hardware and system integration.
- (3) Identify the plan and cost for technology refresh per fiscal year.



Programs using the IT Box



- **DCGS-N** (Distributed Common Ground / Surface System - Navy)

- CPD JUL 08 – JROCM 178-08

- **S-FLTS** (Sequoyah Foreign Language Translation System)

- CDD JUL 08 – JROCM 235-08

- **NCC Incr 2** (Net-Centric Capabilities)

- ✓ CDD AUG 08 – JROCM 203-08

- **FISMOD** (Foreign Instrumentation Signals Modernization)

- ✓ CPD DEC 08 – JROCM 247-08

- **ISPAN** (Integrated Strategic Planning and Analysis Network)

- ✓ CPD DEC 08 – JROCM 161-09

- **EKS** (Enterprise Knowledge System)

- ✓ CDD DEC 08 – JROCM 161-09

- **CANES** (Consolidated Afloat Networks and Enterprise Services)

- ✓ CDD JAN 09 – JROCM 030-09

- **SLC3S-A** (Senior Leadership Command and Control – Airborne)

- ✓ CDD JAN 09 – JROCM 080-09

- **NCCP** (Net-Centric Capabilities Passive)

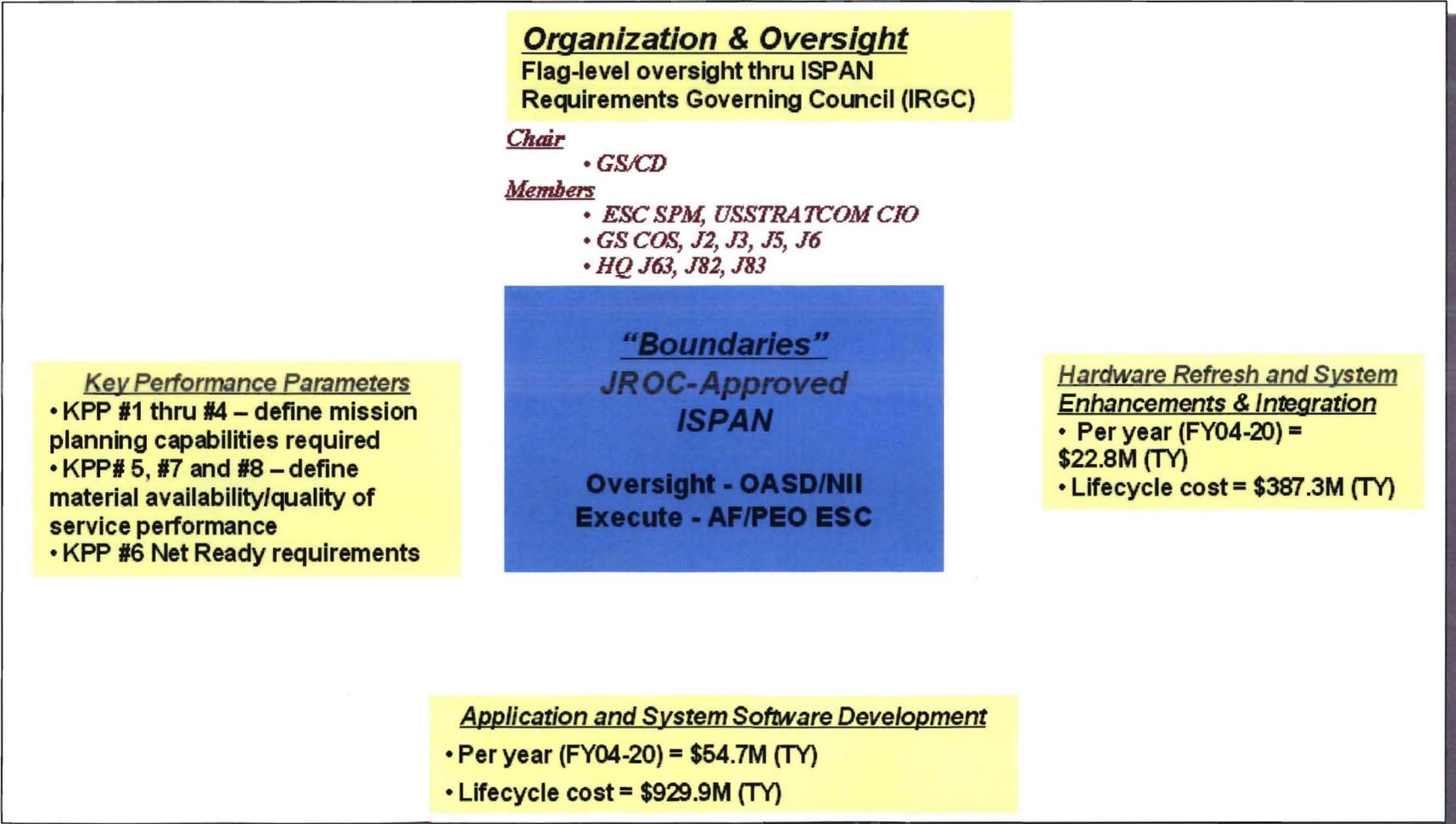
- ✓ CPD MAY 09 – JROCM 125-09

- **PKI** (Public Key Infrastructure)

- ✓ CDD MAY 09 – JROCM 091-09



Example IT Box: ISPAN



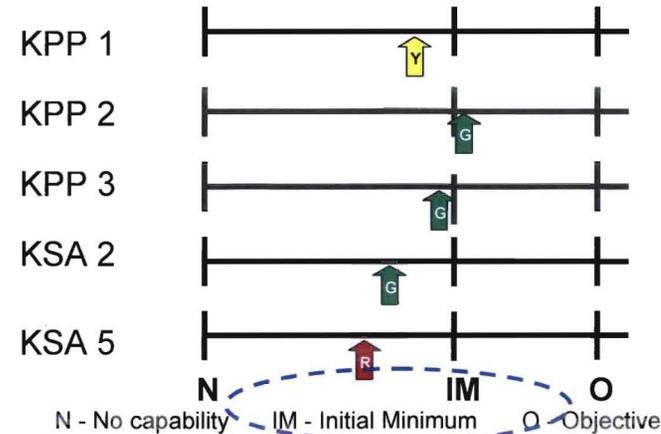


IT Program Cost Driver Quad Chart

Top Cost Drivers

1. A, % of program cost
2. B, % of program cost
3. C, % of program cost
4. D, % of program cost
5. E, % of program cost

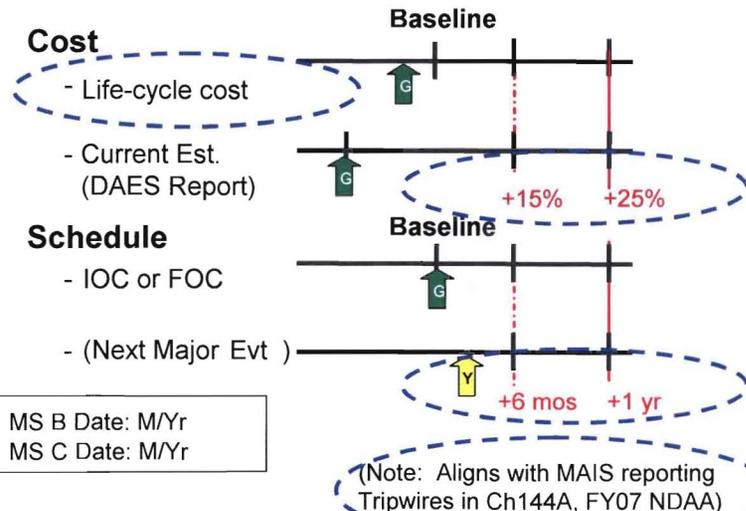
Performance (KPPs & select KSAs)



Technology Readiness Assessment

Critical Technologies	Current Assessment	Est @ Next Milestone
Technology A	TRL #	TRL #
Technology B	TRL #	TRL #
Technology C	TRL #	TRL #
Technology D	TRL #	TRL #
Technology E	TRL #	TRL #
Technology F	TRL #	TRL #

Acquisition Program Baseline (APB)



MS B Date: M/Yr
MS C Date: M/Yr

Example IT Box JROCM



THE JOINT STAFF
WASHINGTON, D.C. 20310-0000

JROCM 016-09
30 January 2009

JOINT REQUIREMENTS
OVERSIGHT COUNCIL

MEMORANDUM FOR COMMANDER, US STRATEGIC COMMAND

Subject: Integrated Strategic Planning & Analysis Network Block 1 Capability Production Document

1. (U) The Joint Requirements Oversight Council (JROC) approves the Integrated Strategic Planning & Analysis Network (ISPAN) Block 1 Capability Production Document and validates the enclosed key performance parameters (KPPs). The JROC directs that ISPAN become the DoD Program of Record (POR) for Joint Course of Action (COA) development at the COCOM/strategic level and that these joint capabilities be made available to the DoD Enterprise as network services.

2. (U) The JROC delegates oversight of this program to the USSTRATCOM chaired ISPAN Requirements Governing Council (IRGC). The enclosure defines the JROC approved IRGC roles, ~~the initial minimum KPPs, the IRGC relationships to the Command and Control Capability Integration Board (C2CIB) and the resource constraints placed on this program.~~ The IRGC may approve spiral developments of this capability as long as all initial KPPs are achieved and funding constraints are not exceeded.

3. (U) The IRGC will ensure that ISPAN Block 1 is brought back to the JROC if the funding levels identified in enclosure 1 are exceeded or the initial KPPs are not achieved. Approval authority for non-key performance parameter changes is delegated to the IRGC.

4. (U) Should USSTRATCOM encounter costs exceeding 25 percent of the original program baseline (Program Acquisition Unit Cost/Average Procurement Unit Cost), they shall return to the JROC prior to reprogramming or budgeting additional funding into the program.


JAMES E. CARTWRIGHT
General, United States Marine Corps
Vice Chairman
Of the Joint Chiefs of Staff

Enclosure

- Requirements oversight delegated to ISPAN Requirements Governing Council (IRGC)
- Program does not need to return to JROC unless IT Box funding levels are exceeded, or initial minimum KPPs are not achieved

Example ISPAN IT Box JROCM



THE JOINT STAFF
WASHINGTON, D.C. 20318-8000

JROCM 016-09
30 January 2009

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OVERSIGHT COUNCIL

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Enclosure



Lessons Learned / Working Issues

Lessons Learned:

- KPPs in IT program CDDs should be briefed with “Initial Minimums” vice traditional Thresholds / Objectives
- PAUC / APUC don’t apply to IT acquisition; must use different metric.
- For incremental acquisition, ensure IT Box describes entire IT program and not just a single increment.

Working Issues:

- Implement “enduring KPPs” for IT programs
- How to continue to baseline progress after ‘Initial Minimum’ KPPs are achieved?



- **The IT Box is the right thing to do for IT Programs**
 - Provides required flexibility for IT program success
 - Allows more effective support to the Warfighter

- **High-level guidance and agreement**
 - VCJCS, JROC, OASD(NII)
 - **Supports F2010 NDAA:**
“The Secretary of Defense shall develop and implement a new acquisition process for IT systems. . . . based on upon recommendations from the DSB Task Force on Acquisition of IT.”

- **Must continue close coordination to successfully implement IT Box**